DOCUMENT RESUME

ED 094 519 EC 062 464

AUTHOR	Gill, J. M., Comp.; Tobin, M. J., Comp.
TITLE	European Register of Research on Visual Impairment.
INSTITUTION	Birmingham Univ. (England). Research Centre for the Education of the Visually Handicapped.; Warwick Univ., Coventry (England). Dept. of Engineering.
PUB DATE	May 74
NOTE	27p.
EDRS PRICE	MF-$0.75 HC-$1.85 PLUS POSTAGE
DESCRIPTORS	*Directories; *Exceptional Child Research; Foreign Countries; Research Projects; *Research Reviews (Publications); *Visually Handicapped
IDENTIFIERS	*Europe

ABSTRACT

The register of research currently underway in Europe on visual impairment contains a scan-column index of approximately 60 research topics and an alphabetical list of 204 research workers. Criteria for selection are explained to have limited project inclusion to studies of conditions which have so far proved intractable to amelioration through medical intervention. Research topic descriptors include terms such as adventitious, attitudes (toward blindness), compressed speech, guide dogs, and rubella. Readers are instructed to select the descriptor best describing the area of interest and then to scan the appropriate numerical column of the index for the selected alphabetical symbol to obtain names of researchers working on that subject. The alphabetical list of researchers includes postal addresses and a brief description of their current research project. The following are examples of listed research projects: evaluation of closed circuit television aids for the partially sighted, spatial organization and blindness in the course of development, and development of a program for teaching blind children to read embossed maps. (DB)

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EUROPEAN REGISTER OF RESEARCH ON VISUAL IMPAIRMENT

compiled by

J.M. Gill and M.J. Tobin

Department of Engineering
University of Warwick
Coventry
CV4 7AL
England

Research Centre for the Education
of the Visually Handicapped
University of Birmingham
Edgbaston
Birmingham 15
England

May 1974

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Foreword

This register of research, comprising listings of work under way in Europe, is the first effort of its kind. That it is a flawed masterpiece, it is true; but that it is a masterpiece is to the credit of Drs. Gill and Tobin. Our desire to point up its deficiencies is no masochistic exercise; nor will we be revealing more than any careful user will discover for himself in using this register. Our purpose in mentioning the shortcomings of the compilation is two-fold: first, to emphasize that it is a first attempt of its kind, produced at little cost, and under the several pressures of the time available; second, to underscore the fact that the compilation is the first of a series, each of which in turn should reflect greater accuracy, wider coverage, and more consistent format and rules for its content.

In a first effort, one attempts to establish a few rules for choosing the data included in a survey, without making them so restrictive that no entry passes the "rules". Such is the case for example, with medical research. The basic question that we had to answer was: where does one "cut off" the relatedness of medical, clinical, and ophthalmological research so that we preserve maximal relevance to visual impairment and blindness? It is not easy to provide an answer with a "good fit" to the data. We chose to decide what is relevant on the basis of that group of conditions which has so far proved intractable to amelioration through medical intervention (1). We also judge acceptable relevant studies that show promise of yielding answers to the problems of amelioration of diseases whose etiology and mangement are reasonably well understood, as in the case of cataracts, where some new perspective is gained in research currently under way.

I have expatiated somewhat on this issue because it is similar to the dilemmas posed in almost every one of the areas of research covered by this register: psychosocial, educational, sociological, statistical, and--last but not least--technological. One of the persistent dilemmas in our field is aroused by an attempt to delimit our scope of interest--where does one "cut off"? Surely, if one of the goals of rehabilitation is to restore a style of living, or make possible a given style of life, then almost anything relevant to the human condition is also relevant to a researcher. In this

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(1) Scott, Alan B. "The Changing Causes of Blindness," in L.L. Clark (Ed) Proceedings of the West Coast Regional Conference on Research Related to Blind and Severely Visually Impaired Children. New York: American Foundation for the Blind, December 1965, pages 29-33.

situation, one can only attempt operational definitions that define areas of interest that will of necessity shift over time. Although this bears the real danger of exposing us to "fads" in research, just as the rest of the world endures fads in fashion, we try to be sensible in our enthusiasm and in our perspective.

A further problem has to do with the level of generality of the entries. Some of the projects noted here are described very generally; others describe quite specific research undertakings. There is value in both types of description. In future editions of this register, we hope to include a general statement for each project listed, and at least one specific (project) following that general descritpion. The first statement will set the context within which a given researcher works; the second statement will then give some sense of his current work and current interests.

Finally, the matter of completeness and of accuracy of entries. It is well understood in documentation research that it takes as much effort to achieve the last five percent of coverage of a complete "universe" of data as it does to compile the first 95 percent of coverage. Inevitably, this means that our listings are incomplete. Similar constraints on time spent and effort expended mean that the accuracy of listings depend critically on what researchers reported to us of what they are doing. Those readers familiar with work in a given area of research may well note that some projects known to them have been omitted; and some will note that incompleteness of an entry, or downright errors in one, may give a false impression of work that is now under way. We shall depend on our readers to aid us in remedying these defects.

But, as I started out by emphasizing, Drs. Gill and Tobin have no reason to be shy over their considerable accomplishment in providing the research community with this magnificent first attempt to survey work related to research in visual impairment in the European community. The IRIS has been proud to assist them in their effort, and we hope that the product of all this work will find favour with the international community of research in whose interest this effort has been expended. We shall welcome comments from users of this survey; you may address your comments to Dr. Gill, to Dr. Tobin, or to IRIS.

Leslie L. Clark
I.R.I.S.
New York

Introduction

This register has been divided into two parts:

1. Scan-column index of research topics. To use the scan-column index you select the descriptor(s) which best describe your interest. You then scan the appropriate column(s) of the index for the selected symbol(s). If your interest is specific you may have to search for two or three symbols at once.

2. Alphabetical list of research workers with their postal addresses and and brief description of their current research projects.

The register will be updated periodically so could you please send any alterations to J.M. Gill, Department of Engineering, University of Warwick, Coventry CV4 7AL, England

The authors are most grateful for the considerable help and encouragement they have received from Prof. Dr. W. Boldt, Dr. L.L. Clark, V. Fedorenko, Prof. Dr. Hudelmayer, J.I. Lindstrom, Dr. M.J.C. Mommers, Miss M.J. Saunders, Prof. Dr. Med. W. Starkiewicz, Prof. N. Trowald and Ir. A.N. Westland.

FURTHER INFORMATION

"Registration of Nordic Projects Relating to Disability 1973-07-01". Handikappinstitutet, Sweden. Available in Swedish and English.

A. Raaymakers "Dutch Register of Research Related to Visual Handicap". May 1973. Copies in Dutch, available from Ir. A.N. Westland.

K.J. Kluge "International Information Service on Research Concerning Special Education, Rehabilitation, and Related Fields". G. Schindele Verlag, 7501 Neuburgweier, Alte Rheinstr. 13a, West Germany, 1973.

L.L. Clark (ed) "International Catalog of Aids and Appliances for Blind and Visually Impaired Persons". American Foundation for the Blind, New York, 1973, price $2.00.

The primary purpose of the International Research Information Service (IRIS) is to supply researchers with needed information from a broad range of natural, behavioural and technological sciences, bearing on problems arising from sensory impairment, and especially visual impairment. IRIS also publishes Research Bulletin, prepares bibliographies, state-of-the-art reports, and evaluations. For more information about these services, which are available to all qualified researchers, you should write to Dr. L.L. Clark, IRIS, American Foundation for the Blind, 15 West 16th Street, New York 10011, U.S.A.

DESCRIPTORS	SYMBOL	FREQUENCY
ACHIEVEMENT TESTS	31 a	9
ACUITY	26 A	3
ADJUSTMENT	32 G	4
ADULTS	40 L	2
ADVENTITIOUS	12 A	2
AGE	39 a	1
APTITUDE TESTS	8 T	2
ARCHITECTURE/ENVIRONMENT	43 a	4
ATTITUDES (TOWARDS BLINDNESS)	18 A	6
AUDITION	1 a	19
BRAILLE	34 L	29
CANE	31 c	3
CHILDREN	42 C	50
CLASSIFICATION/DEFINITION	35 c	3
COGNITIVE/CONCEPTUAL ACTIVITY	19 c	8
COMMUNICATION	30 T	8
COMPREHENSION	36 C	1
COMPRESSED SPEECH	12 R	1
COMPUTER PROGRAMS	26 P	12
CONGENITAL	11 g	5
CORTICAL STIMULATION	27 c	2
CUTANEOUS SENSES	10 C	1
DEAF-BLIND PERSONS	38 P	11
DEMOGRAPHY	22 U	1
DEVELOPMENT (IN THE EDUCATIONAL SENSE)	34 D	13
DEVICES AND EQUIPMENT	19 e	55
DISPLAYS AND DISPLAY SYSTEMS	32 D	22
DISSEMINATION OF INFORMATION	48 D	1
EDUCATION	45 e	40
EMBOSSED MATTER	14 B	14
EMBOSSING MACHINES AND SYSTEES	33 e	25
EVALUATION	51 e	17
GUIDE DOGS	14 G	1
ILLUSTRATIONS	35 i	13
LARGE PRINT	21 l	2
LASER	41 l	3
LOW VISION AIDS	52 L	21
MAPS	39 m	6
MEDECINE	13 m	13
MOBILITY	29 m	17
MOBILITY DEVICES	37 m	17
MULTIPLE HANDICAPS	21 h	4
ORIENTATION	30 O	6
PARTIALLY-SIGHTED PERSONS	32 P	48
PHYSIOLOGY	20 F	1
PROGRAMMED INSTRUCTION	28 I	2
PSYCHOLOGY	17 k	5
READING	24 R	6
READING MACHINES	7 r	22
REHABILITATION	10 R	3
RUBELLA	5 r	1
SOCIAL ASPECTS/EFFECTS	11 s	16
SOUND RECORDING/REPRODUCTION, TAPE	40 S	2
SPACE PERCEPTION	14 P	4
SPEECH ANALYSIS/SYNTHESIS	16 S	1
SPEECH/LANGUAGE	27 s	3
TACTILE/TACTUAL SENSE	2 T	27
TESTS AND MEASUREMENTS	46 T	22
ULTRASONICS	39 u	4
VISION	4 V	16
VOCATIONAL	6 V	4

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6	BACKMAN		V	r								P					eT		
7	BEBIE			r				e				P			m				
8	BEURLE	a									m				m	u			
9	BILSEN	a						e			m								
10	BOBJER			r				e	h		T	eL		C			e		
11	BOITEN	T						e		P		D	L						
12	BOLANDER	T						e			m	cD			m	El			
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34	DELAFIELD				s	G					m	G							
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36	VAN DRECHT	a						e											
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38	EKBERG							e			T				P				
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40	ERB												D			C	e		
41	FANKHAUSER			r				e				P			m				
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55	HAMPSHIRE											eL							
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113	MEISCHNER									P			eL						
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125	O'CONNOR				g	P					c					C			
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REGISTER OF EUROPEAN RESEARCHERS

1 ACKING PROF. C.A.
DEPARTMENT OF APPLIED AESTHETICS, THE TECHNICAL COLLEGE, FACK 725, S-220 07 LUND 7, SWEDEN.
INVESTIGATION OF THE ENVIRONMENTAL FACTORS INFLUENCING THE ORIENTATION OF THE BLIND.

2 AFANASIEV V.F.
DEPARTMENT OF PHYSICAL EDUCATION AND MEDICAL CONTROL, PEDAGOGICAL INSTITUTE, 38 PISKOUNOVA STR., GORKI, USSR.
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3 ANDERSSON L.
PROJEKT AB ALEA, HENRIKSBERGSVAGEN 104, S-136 67 HANDEN, SWEDEN.
DEVELOPMENT OF RELIEF 'WAX PEN' AND APPLICATION TO BRAILLE WRITING. DEVELOPMENT OF A CHEAP NUMERIC BRAILLE DISPLAY. DEVELOPMENT OF AN ALPHABET BASED ON STANDARD 7-SEGMENT CHARACTERS AND BRAILLE.

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5 ARMSTRONG DR. J.D.
BLIND MOBILITY RESEARCH UNIT, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
EVALUATION OF MOBILITY AIDS FOR THE BLIND AND PARTIALLY-SIGHTED.

6 BACKMAN O.
DEPARTMENT OF VISUAL TECNICS, CENTRE OF REHABILITATION AND VOCATIONAL TRAINING (AMU CENTRE), UPPSALA, SWEDEN.
EFFECTIVE TRAINING METHODS OF PARTIALLY-SIGHTED PEOPLE - THE IMPORTANCE OF CORRECT LIGHT, SUITABLE READING-RESTS, CCTV SYSTEM FOR PARTIALLY SIGHTED PEOPLE.

7 BEBIE H.
KOHLERSTRASSE 21, CH-3174 THORISHAUS, SWITZERLAND.
DEVELOPMENT OF READING MACHINE FOR PARTIALLY-SIGHTED; SYSTEM MAKROLEKTOR. DEVELOPMENT OF AN ELECTRONIC CALCULATOR. DEVELOPMENT OF AN OBSTACLE IDENTIFIER.

8 BEURLE PROF. R.L.
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
INVESTIGATION OF PULSED ULTRASONIC STEREOPHONIC ENVIRONMENTAL SENSOR.

9 BILSEN DR. F.A.
APPLIED PHYSICS DEPARTMENT, DELFT UNIVERSITY OF TECHNOLOGY, LORENTRWEG 1, DELFT, NETHERLANDS.
WITH C.WESDORP: TRAINING APPARATUS FOR AUDITORY LOCALISATION BY THE BLIND

10 BOBJER S.O.
HANDIKAPPINSTITUTET, FACK, S-161 03 BROMMA 3, SWEDEN.
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LAB. V. MEET EN REGELTECHN., MEKELWEG 2, DELFT, HOLLAND.
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12 BOLANDER G.
FOA 1 BOX 416, S-172 04 SUNDBYBERG 4, SWEDEN.
LASER CANE. PRELIMINARY INVESTIGATION CONCERNING TACTILE STIMULATORS.

13 BOLDT PROF.DR. W.
PADAGOGISCHE HOCHSCHULE RUHR, D 46 DORTMUND, LINDEMANNSTR. 84, WEST GERMANY.
DEVELOPMENT OF TECHNICAL DEVICES FOR ELECTRONICALLY CONTROLLED LEARNING PROCESSES FOR INFORMATION ACCESS (BLIND CHILDREN AND ADULTS). DEVELOPMENT AND EVALUATION OF LEARNING PROGRAMS FOR THE BLIND.

14 BONNET DR.
BATTELLE INSTITUT, 6 FRANKFURT, ROMERHOF 35, WEST GERMANY.
FASCIMILE PICTURE-READING MACHINE FOR THE BLIND.

15 VAN DEN BOS IR. A.
AFDELING DER NATUURKUNDE, LORENTZWEG 1, DELFT, NETHERLANDS.
TACTUAL READING AID FOR THE BLIND.

16 BOUMA H.
INSTITUTE FOR PERCEPTION RESEARCH, INSULINDELAAN 2, EINDHOVEN, NETHERLANDS
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17 BRAF P.G.
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18 BRINDLEY PROF. G.S.
MEDICAL RESEARCH COUNCIL NEUROLOGICAL PROSTHESES UNIT, INSTITUTE OF PSYCHIATRY, DE CRESPIGNY PARK, LONDON SE5 8AF, ENGLAND.
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19 VAN DEN BRINK PROF.DR. G.
AFDELING DER NATUURKUNDE, LORENTZWEG 1, DELFT, NETHERLANDS.
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20 BUHLER
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21 BUIJK DRS. C.A.
LABORATORIUM VOOR TOEGEPASTE PSYCHOLOGIE, VRIJE UNIVERSITEIT, VOSSIUSSTR. 54-55, AMSTERDAM, NETHERLANDS.
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22 BURLINGHAM D.
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23 CALEK PROF.DR. O.
USTAV SOCIALNIHO VYZKUMU MLADEZE A VYCHOVNEHO PORADENSTVI, PEDAGOGICKA FAKULTA UK, 110.00 PRAHA 1, RETTIGOVE 4, CZECHOSLOVAKIA.
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24 CHALECKI DR.ING. J.
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25 COLANI C.
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26 COLEMAN P.W.F.
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27 COLLINS MRS. D.
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28 COVELLO-HARRISON DR. A.
LABORATORY OF CLINICAL NEUROPHYSIOLOGY, HOPITAL HENRI ROUSSELLE, 1 RUE CABANIS 75 014 PARIS, FRANCE.
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29 CREWS J.
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30 CROFT DR. A.J.
CLARENDON LABORATORY, DEPARTMENT OF PHYSICS, UNIVERSITY OF OXFORD, PARKS ROAD, OXFORD, ENGLAND.
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31 CROFT DR. L.R.
DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF SALFORD, SALFORD, LANCASHIRE, ENGLAND.
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32 DAUSINGER H.
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33 DEAKIN D.M.
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34 DELAFIELD G.
BLIND MOBILITY RESEARCH UNIT, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
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35 DELLGREN K.
INSTITUTE OF EDUCATION, RALAMBSVAGEN 24, 112 59 STOCKHOLM, SWEDEN.
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36 VAN DRECHT IR. J.
AFDELING DER ELEKTROTECHNIEK, MEKELWEG 4, DELFT, NETHERLANDS.
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37 EBLE B.A.
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38 EKBERG PROF. S.
DEPARTMENT OF TELECOMMUNICATION NETWORKS AND SYSTEMS, THE ROYAL INSTITUTE OF TECHNOLOGY, 100 44 STOCKHOLM 70, SWEDEN.
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39 ENGEL F.L.
INSTITUTE FOR PERCEPTION RESEARCH, INSULINDELAAN 2, EINDHOVEN, NETHERLANDS
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40 ERB J.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
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41 FANKHAUSER DR.MED.PROF. F.
UNIVERSITÄTS-AUGENKLINIK, BREMGARTENSTRASSE 117, CH-3012 BERN, SWITZERLAND.
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42 FEOKTISTOVA MRS. V.A.
TYPHLOPEDAGOGICAL DEPARTMENT, PEDAGOGICAL INSTITUTE NAMED AFTER A.I.HERZEN 48 MOYKA EMBANKMENT, LENINGRAD, USSR.
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43 FERRIES G.W.
DEPARTMENT OF APPLIED PSYCHOLOGY, UNIVERSITY OF ASTON, GOSTA GREEN, BIRMINGHAM B4 7ET, ENGLAND.
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44 FERRIS A.J.
BLIND MOBILITY RESEARCH UNIT, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
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45 FEUK T.
INSTITUTION FOR ELECTRONIC PHYSICS II, CHALMERS UNIVERSITY OF TECHNOLOGY, GOTHENBURG, SWEDEN.
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46 FORNAEUS L.
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47 FRENK DR. H.
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48 FRIEDMANN A.I.
THE COURAGE LABORATORY OF OPHTHALMOLOGY, THE ROYAL EYE HOSPITAL, ST. GEORGE'S CIRCUS, LONDON SE1 0BA, ENGLAND.
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49 FRITSCH
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50 GARDINER DR. P.A.
DEPARTMENT OF OPHTHALMOLOGY, GUYS HOSPITAL, LONDON SE1.
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51 GILL DR. J.M.
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52 GOODMAN DR. W.
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53 GNEUSHEVA MRS. A.N.
INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
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54 HAGNER I.
DEPARTMENT OF SOCIOLOGY, DROTTNINGGATAN 1 UPPSALA, SWEDEN.
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55 HAMPSHIRE B.
DEPARTMENT OF PSYCHOLOGY, MANCHESTER UNIVERSITY, MANCHESTER M13 9PL, ENGLAND.
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56 HARDING DR. G.F.A.
NEUROPSYCHOLOGY UNIT, APPLIED PSYCHOLOGY DEPARTMENT, UNIVERSITY OF ASTON, GOSTA GREEN, BIRMINGHAM B4 7ET, ENGLAND.
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THE ROSENZWEIG-PICTURE-FRUSTRATION TEST WITH PARTIALLY-SIGHTED CHILDREN.

58 HEATH DR. H.
DEPARTMENT OF BIOCHEMICAL PATHOLOGY, UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL, UNIVERSITY STREET, LONDON WC1E 6JJ, ENGLAND.
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59 HEGINBOTHAM PROF. W.B.
WOLFSON INDUSTRIAL AUTOMATION GROUP, DEPARTMENT OF PRODUCTION ENGINEERING AND PRODUCTION MANAGEMENT, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
WITH D.W. GATEHOUSE: DEVELOPMENT OF A PORTABLE DESK-TOP COMPUTER/ CALCULATOR TERMINAL WITH BRAILLE OUTPUT (40-60 CHARACTERS PER SECOND).

60 HEITMANN DR.
FA. LEITZ, WETZLAR, D633 WETZLAR, WEST GERMANY.
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61 HELLER PROF.DR. K.
PAD. HOCHSCHULE RHEINLAND, ABTEILUNG BONN, D-53 BONN, ROMERSTRABE 164, WEST GERMANY.
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62 HENGSTLER M.
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63 HENRICSSON L.E.
HANDIKAPPINSTITUTET, FACK, S-161 03 BROMMA 3, SWEDEN.
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64 HERMELIN DR. B.
MEDICAL RESEARCH COUNCIL, DEVELOPMENTAL PSYCHOLOGY UNIT, DRAYTON HOUSE, GORDON STREET, LONDON WC1H 0AN, ENGLAND.
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65 HEYES DR. A.D.
BLIND MOBILITY RESEARCH UNIT, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
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66 HILL PROF. D.W.
DEPARTMENT OF OPHTHALMOLOGY, ROYAL COLLEGE OF SURGEONS, LINCOLNS INN FIELDS, LONDON WC2A 3PN, ENGLAND.
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67 HOFFIELD M.
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68 HORN DR.PHIL. H.
PADAGOGISCHE HOCHSCHULE RUHR, ABTEILUNG FUR HEILPADAGOGISCHE, KREUZSTRASSE 155, 46 DORTMUND, WEST GERMANY.
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69 HORVATH DIPL.ING. Z.
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70 HUDELMAYER PROF. DR.
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71 JACOBS DR. K.
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72 JAMES G.A.
BLIND MOBILITY RESEARCH UNIT, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, ENGLAND.
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73 JAMES W.R.K.
CITY OF BIRMINGHAM COLLEGE OF EDUCATION, WESTBOURNE ROAD, EDGBASTON, BIRMINGHAM B15 3TN, ENGLAND.
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74 JANSE H.J.
INTERELEKTRONIKS, POSTBUS 2035, ARNHEM, NETHERLANDS.
CLOSED CIRCUIT T.V. READING AID

75 JANSSON PROF G.
DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF UPPSALA, S:T LARSGATAN 2, S-752 20 UPPSALA, SWEDEN.
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77 JOHANSSON K.A.
DEPARTMENT OF EDUCATION, STOCKHOLM UNIVERSITY, FACK, S-104 05 STOCKHOLM, SWEDEN.
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78 JONES MISS. L.
NEUROPSYCHOLOGY UNIT, APPLIED PSYCHOLOGY DEPARTMENT, UNIVERSITY OF ASTON, GOSTA GREEN, BIRMINGHAM B4 7ET, ENGLAND.
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79 JONKERS DRS. H.L.
AFDELING DER VLIEGTUIGBOUWKUNDE, KLUYVERWEG 1, DELFT, NETHERLANDS.
CLOSED CIRCUIT T.V. READING AID.

80 JONSSON A.
HANDIKAPPINSTITUTET, FACK, S-161 03 BROMMA 3, SWEDEN.
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81 JUURMAA DR. J.
UNIVERSITY OF HELSINKI, FABIANINKATU 33, HELSINKI, FINLAND.
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82 KAMMINGA IR. C.
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83 KAPLAN MRS. A.I.
INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
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84 KEMNA IR. L.J.A.J.
DORASTRAAT 39, HENGELO, NETHERLANDS.
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85 KLEIN-GERBER M.
PADAGOGISCHE HOCHSCHULE RUHR, D 46 DORTMUND, LINDEMANNSTR. 84, WEST GERMANY.
THE SOCIAL ADJUSTMENT OF BLIND AND PARTIALLY-SIGHTED PEOPLE ON LEAVING SCHOOL.

86 KOULAGIN PROF. Y.A.
TYPHLOPSYCHOLOGICAL LABORATORY, INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
PECULIARITIES OF COGNITIVE ACTIVITY OF THE BLIND AND PARTIALLY-SIGHTED.

87 KRIEGER K.H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
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88 KRIEGER R.
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89 KRUG F. & R.
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PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
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91 KUBEL H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
AN ANXIETY TEST FOR PARTIALLY-SIGHTED CHILDREN IN NORMAL SCHOOLS.

92 KULISZEWSKI PROF.DR.ING. T.
INSTITUTE OF TELECOMMUNICATION, TECHNICAL UNIVERSITY OF WROCLAW, 50 372 WROCLAW, UL. JANISZEWSKIEGO 11, POLAND.
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93 KUOTOLA U.
ACADEMY OF FINLAND, LAUTTASAARENTIE 1, 00200 HELSINKI 20, FINLAND.
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94 KUPPERS DR.ING. H.J.
WISSENSCHAFTLICHES INSTITUT FUR REHABILITATION UND BERUFLICHE BILDUNG
TRAGER: STIFTUNG REHABILITATION, 6900 HEIDELBERG 1, POSTFACH 306, WEST GERMANY.
DEVELOPMENT OF SYSTEMS FOR COMPUTER TRANSLATION OF TEXT TO BRAILLE. DEVELOPMENT OF SYSTEM FOR EMBOSSING PLATES WITH BRAILLE STORED ON A DATA TAPE. DEVELOPMENT OF ELECTRONIC BRAILLE DISPLAYS.

95 KURCZ MGR.ING. E.
POLSKIE ZAKLADY OPTYCZNE PZO, 03 839 WARSZAWA, UL. GROCHOWSKA 316, POLAND.
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96 KUSTERS P.A.
VAN ADRICHEMWEG 371, OVERSCHIE, NETHERLANDS.
SPEAKING-RULE FOR THE DEAF/BLIND.

97 KUTSCHERA F.
D3 HANNOVER, KONIGSWORTHERSTR. 7, WEST GERMANY.
COPYTHERM.

98 LAIRY DR. G.C.
LABORATORY OF CLINICAL NEUROPHYSIOLOGY, HOPITAL HENRI ROUSSELLE, 1 RUE CABANIS 75 014 PARIS, FRANCE.
DEVELOPMENTAL STUDIES OF BLIND AND PARTIALLY-SIGHTED CHILDREN.

99 LANSDOWN R.G.
THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON WC1, ENGLAND.
A STUDY OF THE DEVELOPMENT OF VISUAL PERCEPTION OF CHILDREN ATTENDING SCHOOLS FOR THE PARTIALLY-SIGHTED AND OF THE RELATIONSHIP BETWEEN VISUAL PERCEPTION AND READING AND SPELLING.

100 LEWIS DR. J.W.
DEPARTMENT OF COMPUTER SCIENCE, HATFIELD POLYTECHNIC, P.O. BOX 109, HATFIELD, HERTFORDSHIRE, ENGLAND.
WITH J.M.JENKIN: DEVELOPMENT OF SOFTWARE FOR USE WITH AN ON-LINE COMPUTER TERMINAL WITH PAGED BRAILLE OUTPUT.

101 LIBMAN DR. E.S.
EYE DISEASES DEPARTMENT, CENTRAL RESEARCH INSTITUTE OF LABOUR EXAMINATION AND CAPACITY FOR WORK OF THE HANDICAPPED OF THE MINISTRY OF SOCIAL SECURITY OF THE R.S.F.S.R., 3 OSTRIAKOVA STR., MOSCOW, USSR.
EXAMINING OF CAPACITY FOR WORK AT THE EYE-DISEASES AND QUESTIONS OF EMPLOYMENT OF THE BLIND AND PARTIALLY-SIGHTED.

102 LIE DR. I.
INSTITUTE FOR PSYCHOLOGY, UNIVERSITY OF OSLO, 1094 BLINDERN, NORWAY.
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103 LINDQVIST B.
DEPARTMENT OF RESEARCH AND DEVELOPMENT, ASSOCIATION OF THE BLIND, GOTLANDSGATAN 46, S-116 65 STOCKHOLM, SWEDEN.
DISSEMINATION OF RESEARCH FINDINGS AMONG PRACTITIONERS AND THE VISUALLY HANDICAPPED.

104 LINDSTROM J.I.
HANDIKAPPINSTITUTET, FACK, S-161 03 BROMMA 3, SWEDEN.
INVOLVED IN THE DEVELOPMENT OF: AN ORIENTATION AID CONSISTING OF A NUMBER OF SOUND BEACONS PLACED ALONG A ROADSIDE; GUIDE WIRE DEVICES; INDICATOR FOR END OF PAPER FOR A TYPEWRITER; EQUIPMENT FOR DRAWING BY THE BLIND; READING AND WRITING EQUIPMENT FOR MULTI-HANDICAPPED CHILDREN; ELECTRONIC THERMOMETER; NEW OPTICAL AIDS; CLOSED CIRCUIT TV SYSTEM FOR THE PARTIALLY-SIGHTED; READING AND WORKING TABLE FOR THE VISUALLY IMPAIRED; TESTING OF LIGHTING; ADAPTION OF BUILDINGS AND OTHER FORMS OF PHYSICAL ENVIRONMENT FOR THE VISUALLY HANDICAPPED.

105 LITSENIUS J.E.
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PRELIMINARY INVESTIGATION CONCERNING TACTILE STIMULATORS FOR THE BLIND.

106 LITVAK A.G.
TYPHLOPEDAGOGICAL DEPARTMENT, PEDAGOGICAL INSTITUTE NAMED AFTER A.I.HERZEN 48 MOYKA EMBANKMENT, LENINGRAD, USSR.
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107 LOOYEN M.
REKENCENTRUM T.H.-DELFT, MICHIEL DE RUYTERWEG 10-12, DELFT, NETHERLANDS.
COMPUTER PROGRAM TO PRODUCE BRAILLE OUTPUT.

108 LOTHMAN M.
DEPARTMENT OF EDUCATIONAL RESEARCH, VASAGATAN 1 A, S-752 24 UPPSALA, SWEDEN
INVOLVED IN AN ANALYSIS OF READING BEHAVIOUR IN BRAILLE.

109 LUNDSTROM I.
RESEARCH LABORATORY OF ELECTRONICS, CHALMERS UNIVERSITY OF TECHNOLOGY, GOTEBORG, SWEDEN.
WITH A.HORNELL AND D.MCQUEEN: EYE GLASSES WITH VARIABLE LIGHT TRANSMISSION

110 MANNESSON B.
TELUB AB, FACK, S-351 01 VAXJO, SWEDEN.
WITH B.DAHLBERG, H.ENGSTROM, S.A.HALTSJO AND J.OLOFSSON: TACTILE DISPLAYS FOR ELECTRONIC CALCULATORS AND DIGITAL MULTIMETERS. READING AID CONSISTING OF A MODULAR CLOSED CIRCUIT T.V. SYSTEM. ELECTRONIC THERMOMETER FOR THE VISUALLY HANDICAPPED.

111 MARMOLIN DR. H.
DEPARTMENT OF EDUCATIONAL RESEARCH, IHU, OSTRA AGATAN 9, 753 22 UPPSALA, SWEDEN.
INVOLVED IN THE EVALUATION OF THE OPTACON: METHODS AND EFFECTS OF TRAINING

112 MAYLES W.P.M.
DEPARTMENT OF OPHTHALMIC RESEARCH, GUYS HOSPITAL, LONDON SE1, ENGLAND.
ASSESSMENT OF VISUAL ACUITY BY OBJECTIVE MEANS IN THE HANDICAPPED CHILD.

113 MEISCHNER ING. G.
GUREG-ELEKTRONIK, D 8013 MUNCHEN - HAAR, ZUNFTSTRABE 11, WEST GERMANY.
DEVELOPMENT OF COMPUTER BRAILLE PRODUCTION SYSTEMS AND A HIGH-SPEED BRAILLE TAPE PRINTER (900 CHARACTERS/MIN.).

114 MERSI PROF.DR.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
METHODS OF TEACHING PARTIALLY-SIGHTED CHILDREN. VISUAL TRAINING OF PARTIALLY-SIGHTED CHILDREN. EVALUATION OF TEACHING AIDS FOR THE PARTIALLY-SIGHTED.

115 MESCHERIAKOV PROF. A.I.
LABORATORY FOR DEAF-BLIND CHILDREN, INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
EDUCATION OF THE DEAF-BLIND CHILDREN.

116 MINEKUS N.J.
LAB. VOOR FIJNMECHANISCHE TECHNIEK, LEEGHWATERSTRAAT 1-3, DELFT, NETHERLANDS.
DEVELOPMENT OF A PUNCHED CARD READER, BRAILLE LINE PRINTER AND A PAPER ROLLER FOR STORING TAPE FROM A BRAILLE SHORTHAND MACHINE.

117 MOMMERS DRS. M.J.C.
INSTITUUT VOOR ONDERWIJSKUNDE, KATHOLIEKE UNIVERSITEIT, ERASMUSLAAN 40, NIJMEGEN, NETHERLANDS.
STANDARDIZATION OF SOME BRAILLE-READING TESTS FOR THE ELEMENTARY GRADES. DEVELOPMENT OF A TACTUAL FORM DISCRIMINATION TEST AND A TACTUAL SIZE DISCRIMINATION TEST FOR CHILDREN (AGE 7-14 YEARS). EXPLORATION OF FACTORS RELATED TO THE READING ABILITY OF BLIND PUPILS IN THE ELEMENTARY GRADES. REPLICATION OF AN EXPERIMENTAL STUDY ABOUT RIGHT AND LEFT HAND BRAILLE READING FROM HERMELIN AND O'CONNOR.

118 MORGOULIS I.S.
RESEARCH PEDAGOGICAL INSTITUTE OF UKRAIN, 10 LENIN STR., KIEV, USSR.
STUDY OF SENSORY DEVELOPMENT OF THE BLIND CHILDREN.

119 MOSBACH G.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
EDUCATION AND VOCATIONAL SITUATION OF BLIND AND PARTIALLY-SIGHTED INDUSTRIAL WORKERS.

120 MOURATOV DR. R.S.
TYPHLOTECHNICAL LABORATORY, 3 FESTIVALNAIA STR., SVERDLOVSK, USSR.
TYPHLOTECHNIQUE AND OPTICAL MEANS FOR THE VISION DEFECTS CORRECTION.

121 MULHOLLAND W.V.
DEPARTMENT OF OPHTHALMIC RESEARCH, GUYS HOSPITAL, LONDON SE1, ENGLAND.
ASSESSMENT OF VISUAL ACUITY BY OBJECTIVE MEANS IN THE HANDICAPPED CHILD.

122 MYERS S.O.
RESEARCH CENTRE FOR THE EDUCATION OF THE VISUALLY HANDICAPPED, UNIVERSITY OF BIRMINGHAM, 50 WELLINGTON ROAD, EDGBASTON, BIRMINGHAM 15, ENGLAND.
INVESTIGATION OF FORMER PUPILS OF CONDOVER HALL SCHOOL FOR MULTI-HANDICAPPED BLIND ADOLESCENTS. SCIENCE TEACHING FOR BLIND AND

123 MYRBERG M.
DEPARTMENT OF EDUCATIONAL RESEARCH, VAKSALAGATAN 30, 753 31 UPPSALA, SWEDEN.
STUDYING DIFFERENT METHODS OF CONVEYING GRAPHICAL INFORMATION TO BLIND STUDENTS.

124 NOVIKOVA PROF. L.A.
NEUROPHYSIOLOGICAL LABORATORY, INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
STUDY OF ELECTRICAL ACTIVITY OF THE CEREBRUM OF THE BLIND.

125 O'CONNOR DR. N.
MEDICAL RESEARCH COUNCIL, DEVELOPMENTAL PSYCHOLOGY UNIT, DRAYTON HOUSE, GORDON STREET, LONDON WC1H 0AN, ENGLAND.
EXPERIMENTAL STUDY OF CONCEPTS OF SPACE IN CONGENITALLY BLIND CHILDREN.

126 OELDORF K.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
INTELLIGENCE TEST FOR PARTIALLY-SIGHTED SCHOOLCHILDREN IN NORMAL SCHOOLS (WISC).

127 PAGE J.R.U.

INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS, 2361 LAXENBURG, AUSTRIA.
EVALUATION OF CLOSED CIRCUIT TELEVISION AIDS FOR THE PARTIALLY-SIGHTED.

128 PALACZ DR.MED. O.
DEPARTMENT OF OPHTHALMOLOGY, MEDECINE SCHOOL, KLINIKA OCZNA PAM, 70-111 SZCZECIN, UL. POWSTANCOW 72, POLAND.
EFFECTIVE TRAINING METHODS OF BLIND WITH MULTICANALELECTROPHTALM OF STARKIEWICZ.

129 PAPE PROF.DR.MED. R.
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SOCIAL STATISTICAL AND EXPERIMENTAL INVESTIGATIONS ON MONOCULAR VISUAL DEFIENCY.

130 PECHEUX DR. M.G.
LABORATORY OF CLINICAL NEUROPHYSIOLOGY, HOPITAL HENRI ROUSSELLE, 1 RUE CABANIS 75 014 PARIS, FRANCE.
SPATIAL ORGANIZATION AND BLINDNESS IN THE COURSE OF DEVELOPMENT.

131 PESONEN PROF. J.
DEPARTMENT OF SPECIAL EDUCATION, UNIVERSITY OF JYVASKYLA, FINLAND.
DEVELOPMENT OF A RAISED LINE WRITING SYSTEM FOR THE BLIND.

132 PICKLES W.J.
WORCESTER COLLEGE FOR THE BLIND, WHITTINGTON ROAD, WORCESTER WR5 2JU, ENGLAND.
DEVELOPMENT OF A PROGRAMME FOR TEACHING BLIND CHILDREN TO READ EMBOSSED MAPS.

133 VAN DER POEL PROF.DR.IR. W.L.
DELFT UNIVERSITY OF TECHNOLOGY, DEPARTMENT OF MATHEMATICS, 132 JULIANALAAN DELFT, NETHERLANDS.
WITH DR.G.VAN DER MEIJ: BRAILLE EMBOSSER. DEVELOPMENT OF COMMUNICATION AIDS FOR THE DEAF/BLIND: A MECHANICAL CONVERSATION MACHINE AND A BRAILLE TELEPRINTER CONNECTION. BRAILLE TRANSCRIPTIONS OF DOCUMENTS IN MATHEMATICS AND INFORMATICS.

134 RABENHORST DR.
BATTELLE INSTITUT, 6 FRANKFURT, ROMERHOF 35, WEST GERMANY.
FASCIMILE PICTURE-READING MACHINE FOR THE BLIND.

135 RADULOV V.
CENTRAL COUNCIL UNION OF THE BLIND IN BULGARIA, UL. NAYCHO ZANOV 172, SOFIA, BULGARIA.
LINEAR PROGRAMMING IN THE TEACHING OF THE BULGARIAN LANGUAGE AT SCHOOLS FOR THE VISUALLY HANDICAPPED.

136 RASMUSSEN K.
HJEMMET FOR DOVE, GENERATORVEJ 2 A, 2730 HERLEV, DENMARK.
INVESTIGATION OF THE DEAF-BLIND REQUIREMENT FOR REMEDY OF ANY KIND.

137 RATH PROF. W.
WISSENSCHAFTLICHE OBERRATIN, UNIVERSITY OF HAMBURG, 2 HAMBURG 13, SEDANSTRABE 19, WEST GERMANY.
ORGANISATION OF THE SCHOOLS FOR VISUALLY HANDICAPPED IN THE NORTHERN PART OF WEST GERMANY.

138 REYNELL J.
THE WOLFSON CENTRE, INSTITUTE OF CHILD HEALTH, MECKLENBURGH SQUARE, LONDON WC1N 2AP, ENGLAND.
WITH P.ZINKIN: DEVELOPMENTAL ASSESSMENT OF BABIES AND YOUNG CHILDREN WITH SEVERE VISUAL IMPAIRMENT.

139 RITTER DR. M.
UNIVERSITAT MARBURG, FACHBEREICH PSYCHOLOGIE, D355 MARBURG, WEST GERMANY.
EXPERIMENTAL INVESTIGATION INTO THE PERCEPTION OF TACTILE AND ELECTRICAL IMPULSE PATTERNS ON THE SKIN.

140 ROSS DR. H.
DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF STIRLING, STIRLING FK9 4LA, SCOTLAND.
ORIENTATION AND DIRECTION-FINDING IN LOW-VISIBILITY CONDITIONS UNDER WATER AND ON LAND.

141 RUPP A.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
CAUSAL ATTRIBUTIONS OF SUCCESS AND FAILURE WITH PARTIALLY-SIGHTED CHILDREN AND THEIR SIGHTED PEERS IN NORMAL SCHOOLS.

142 SALZARULO P.
LABORATORY OF CLINICAL NEUROPHYSIOLOGY, HOPITAL HENRI ROUSSELLE, 1 RUE CABANIS 75 014 PARIS, FRANCE.
EEG STUDIES IN BLIND CHILDREN, DURING WAKEFULNESS AND SLEEP.

143 SAPPLER M.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
INVESTIGATION FOR THE VALIDATION OF THE INS INTELLIGENCE TEST WITH BLIND STUDENTS.

144 SCHAUERTE DR.PHIL. H.
SEMINAR FUR BLINDEN- UND SEHBEHINDERTENPADAGOGIK, PADAGOGISCHE HOCHSCHULE RUHR, KREUZSTRASSE 155, 46 DORTMUND, WEST GERMANY.
THE PERFORMANCE OF VISUALLY HANDICAPPED CHILDREN AT THE BEGINNING OF PRIMARY AND SECONDARY SCHOOL LEVEL COMPARED WITH SIGHTED CHILDREN: RESEARCH BASED ON INFORMAL TESTS DEVELOPED FROM NORMAL CURRICULAR.

145 SCHIEF DR.
INSTITUT FUR INFORMATIONSVERARBEITUNG DER FRAUNHOFER-GESELLSCHAFT, 75 KARLSRUHE, BRESLAUER STR. 48, BRDEUTSCHLAND.
DEVELOPMENT OF A DEVICE FOR READING PRINT ON THE BASIS OF AN INCOHERENT

146 SCHILLER H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
THE SOCIO-ECONOMIC BACKGROUND OF BLIND CHILDREN.

147 SCHINDELE R.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
VISUALLY HANDICAPPED CHILDREN IN DIFFERENT EDUCATIONAL SETTINGS: A COMPARATIVE EMPIRICAL INVESTIGATION OF THE ACADEMIC ACHIEVEMENT, SOCIAL COMPETENCY, SOCIOMETRIC STATUS AND SOCIAL ADJUSTMENT OF VISUALLY HANDICAPPED CHILDREN IN SEGREGATED AND INTEGRATED EDUCATIONAL PROGRAMMES.

148 SCHLIPPER U.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
INVESTIGATIONS OF THE ACADEMIC ACHIEVEMENT OF PARTIALLY-SIGHTED AND NORMAL CHILDREN IN NORMAL PRIMARY SCHOOLS.

149 SCHOFIELD J.
FACULTY OF ENGINEERING, LIVERPOOL POLYTECHNIC, BYRON STREET, LIVERPOOL L3 3AF, ENGLAND.
DEVELOPMENT OF A READING AID FOR CHILDREN WITH 'TUNNEL VISION'.

150 SCHONER S.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
INVESTIGATIONS OF THE INTELLIGENCE OF PARTIALLY-SIGHTED AND NORMAL PUPILS IN NORMAL PRIMARY SCHOOLS (RAVEN'S COLOURED PROGRESSIVE MATRICES TEST).

151 SCHONHERR DIPL.ING. K.P.
ARBEITSGEMEINSCHAFT FUR REHABILITATIONSTECHNIK AN DER UNIVERSITAT STUTTGART, D-7 STUTTGART, SCHLOB SOLITUDE HAUS 3, WEST GERMANY.
WITH E.SCHAFER, K.-P.LINDENMULLER AND H.BUCHEL:
DEVELOPMENT OF A READING DEVICE FOR THE BLIND. DEVELOPMENT OF A BRAILLE MODULE. DEVELOPMENT OF AN ELECTROMECHANICAL LINE OF BRAILLE DISPLAY.

152 SCHOPPER J.
BAYER. LANDESSCHULE FUR BLINDE, D 8000 MUNCHEN 60, WINTRICHRING 84, WEST GERMANY.
DEVELOPMENT OF THE ELECTRO-BRAILLER FOR BLIND AND DEAF/BLIND CHILDREN AND AS A COMPUTER BRAILLE EMBOSSER FOR BLIND TYPISTS. DEVELOPMENT OF COMPUTER BRAILLE PRODUCTION SYSTEMS AND A HIGH-SPEED BRAILLE TAPE PRINTER.

153 SCHRIMPF H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
SPEECH IMPEDIMENTS OF CHILDREN AT PARTIALLY-SIGHTED SCHOOLS.

154 SCHULZ DR. H.
FACHHOCHSCHULE, D-7743 FURTWANGEN, POSTFACH 28, WEST GERMANY.
DEVELOPMENT OF A LOW COST AND UNCOMPLICATED PICTURE CONVERTER FOR USE IN TACTILE SUBSTITUTION SYSTEMS FOR BLIND PERSONS.

155 SCHUSTER H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
MEASUREMENT OF SPELLING PERFORMANCE OF PARTIALLY-SIGHTED CHILDREN IN THEIR 5TH AND 6TH YEAR AT SCHOOL.

156 SEGERSTAHL PROF. B.
OULU UNIVERSITY, SYSTEMS ENGINEERING LABORATORY, KOULUKATU 32, 90100 OULU 10, FINLAND.
DEVELOPMENT OF A READING DEVICE CONSISTING OF A CHARACTER RECOGNITION

157 SERMEEV PROF. B.V.
DEPARTMENT OF THEORY AND METHODS OF PHYSICAL EDUCATION, PEDAGOGICAL INSTITUTE, 38 PISKOUNOVA STR., GORKI, USSR.
PHYSICAL EDUCATION OF NORMAL CHILDREN AND CHILDREN WITH PATHOLOGICAL CHANGES.

158 SHEAR H.
JEWISH BLIND SOCIETY, 91 STAMFORD HILL, LONDON N16, ENGLAND.
DEVELOPMENT OF A REMOTE-CONTROL GUIDANCE LINK FOR COMMUNICATION WITH DEAF/BLIND MOBILITY CLIENTS.

159 SIEBERTZ M.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
THE SOCIO-ECONOMIC BACKGROUND OF PARTIALLY-SIGHTED CHILDREN.

160 SILVER MISS J.
MOORFIELDS EYE HOSPITAL, CITY ROAD, LONDON EC1V 2PD, ENGLAND.
INVESTIGATION OF THE RELATIONSHIP BETWEEN THE DIAGNOSIS OF THE CAUSE OF LOSS OF VISUAL FUNCTION AND THE PROGNOSIS FOR SUCCESS WITH OPTICAL AIDS.

161 SKOVMAND J.
STATENS INSTITUT FOR BLINDE OG SVAGSYNEDE, RYMARKSVEJ 1, 2900 HELLERUP, DENMARK.
ACOUSTIC TRAFFIC SIGNALS. EVALUATING THE SWEDISH CCTV SYSTEM.
INVESTIGATION OF NEW JOB OPPORTUNITIES THROUGH ERGONOMIC SYSTEMS ANALYSES.

162 SMEDSHAMMAR H.
DEPARTMENT OF EDUCATIONAL RESEARCH, LHU, OSTRA AGATAN 9, S-753 22 UPPSALA, SWEDEN.
MAKING EVALUATIONS ON READING TRAINING FOR THE PARTIALLY-SIGHTED AND ON OPTICAL AIDS AND OTHER AIDS FOR READING WITH PARTIAL SIGHT.

163 SMITH D.T.
CLARENDON LABORATORY, DEPARTMENT OF PHYSICS, UNIVERSITY OF OXFORD, PARKS ROAD, OXFORD, ENGLAND.
AUDIBLE ELECTRONIC CALCULATOR.

164 SNIJDERS DR.IR. C.J.
POSTBUS 513, EINDHOVEN, NETHERLANDS.
DEVELOPMENT OF A PORTABLE COMPACT BRAILLER.

165 SOLNTSEVA MRS. L.I.
LABORATORY OF EDUCATION OF BLIND CHILDREN, INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
PECULARITIES OF COGNITIVE ACTIVITY OF THE PRE-SCHOOL AND SCHOOL AGED BLIND CHILDREN.

166 SORKE W.
D 8941 BUXHEIM, STIFTERSTR. 2, WEST GERMANY.
COMMUNICATION SYSTEMS FOR THE DEAF/BLIND.

167 SPANJERSBERG A.A.
DR. NEHER LABORATORY, ST. PAULUSSTRAAT 4, LEIDSCHENDAM, NETHERLANDS.
WITH C.G.KORTEKAAS AND Y.BARENDREGT: AUTOMATIC BRAILLE PRINTER.

168 SPANJERSBERG H.A.
UNIVERSITY OF TECHNOLOGY, DEPARTMENT OF ELECTRICAL ENGINEERING, LABORATORY FOR DATA PROCESSING, MEKELWEG 4, DELFT, NETHERLANDS.
WITH J.A.H.SNELDERS AND C.VAN PELT: DEVELOPMENT OF AN UNIVERSAL BRAILLE SYSTEM BASED ON A MICROPROCESSOR. DEVELOPMENT OF A PAPER-TAPE PUNCH WITH THE DATA CODED IN BRAILLE.

169 STARKIEWICZ PROF.DR.MED. W.
DEPARTMENT OF OPHTHALMOLOGY, MEDECINE SCHOOL, KLINIKA OCZNA PAM, 70-111 SZCZECIN, UL. POWSTANCOW 72, POLAND.
WIH DR.MED. O.PALACZ, DR.ING. J.CHALECKI, MGR.ING. E.KURCZ, ING. S.WYSOCKI AND PROF.DR.ING. T.KULISZEWSKI: TACTILE SUBSTITUTE FOR VISION, MULTI-CHANNEL OPTICO-TACTILE DEVICE FOR THE BLIND: ELECTROPHTALM.

170 STEPPICH C.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
INVESTIGATIONS OF THE RELIABILITY OF THE INS INTELLIGENCE TEST WITH BLIND CHILDREN.

171 STRNAD DR. M.
OPHTALMOLOGICAL INSTITUTION, PRAGIE 2, KOPERNIKOVA 8, CZECHOSLOVAKIA.
EXPERIMENTAL STUDY OF INCREASED SIGHT EXPLOITATION IN LOW VISION CHILDREN, HAVING DISTANCE ACUITY MEASUREMENTS RANGING FROM OBJECT PERCEPTION TO 3/50 IN THE BETTER EYE AFTER CORRECTION, IN SPECIAL SCHOOLS WITH COMBINED SIGHT-BRAILLE EDUCATION. EXPERIMENTAL STUDY OF MINIMAL BRAIN DYSFUNCTION IN BLIND AND PARTIALLY-SIGHTED CHILDREN.

172 STRNADOVA PROF.DR. M.
OPHTHALMOPEDICKY USTAV, KOPERNIKOVA 8, 120.00 PRAHA 2, VINOHRADY, CZECHOSLOVAKIA.
THE PSYCHOLOGICAL RESEARCH IN CHILDREN WITH RESIDUAL VISION. REGULAR PSYCHOLOGICAL TESTING OF THE VISUALLY HANDICAPPED CHILDREN ACCORDING TO THE NEEDS OF THE OPHTHALMOLOGIC SERVICE TO THEM.

173 STROHBERGER H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
A PROGRAMME FOR THE COGNITIVE DEVELOPEMNT OF BLIND PRE-SCHOOL CHILDREN.

174 THIEL H.J.
D 6104 JUGENHEIM, PAUERWERG 4, WEST GERMANY.
ADDITIONAL TELEX DEVICE FOR THE BLIND.

175 THIMM PROF.DR.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
ROLE PERFORMANCE OF THE VISUALLY HANDICAPPED. THE BLIND PERSON AS A MEMBER OF DIFFERENT SOCIAL GROUPS.

176 THOMAS D.H.
NEWCASTLE UPON TYNE POLYTECHNIC, DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING, ELLISON BUILDING, ELLISON PLACE, NEWCASTLE UPON TYNE NE1 8ST, ENGLAND.
WITH J.A.BEVERIDGE, P.CROUK AND T.D.TRENHOLM: DEVELOPMENT OF DUPLICATOR FOR BRAILLE DOCUMENTS IN SMALL QUANTITIES.

177 THOMPSON MISS. C.
NEUROPSYCHOLOGY UNIT, APPLIED PSYCHOLOGY DEPARTMENT, UNIVERSITY OF ASTON, GOSTA GREEN, BIRMINGHAM B4 7ET, ENGLAND.
VISUAL EVOKED RESPONSES IN NORMAL ADULTS AND CHILDREN, AND IN PATIENTS WITH KNOWN VISUAL FIELD DEFECTS: MACULAR AND PERIPHERAL RETINAL LOSS, AMBLYOPIA AND CATARACTS. SKIN ERG RECORDINGS IN NORMALS AND PATIENTS WITH ABNORMAL VISION. EVOKED RESPONSE DIAGNOSIS OF VISUAL AND AUDITORY DEFICITS IN NON-COMMUNICATING CHILDREN.

178 THORNTON W.
NATIONAL MOBILITY CENTRE, 22 MELVILLE ROAD, BIRMINGHAM 16, ENGLAND.
WITH P.RYAN AND P.RYDING: EVALUATION OF A BINAURAL MOBILITY AID.

179 TOBIN DR. M.J.
RESEARCH CENTRE FOR THE EDUCATION OF THE VISUALLY HANDICAPPED, UNIVERSITY OF BIRMINGHAM, 50 WELLINGTON ROAD, EDGBASTON, BIRMINGHAM 15, ENGLAND.
COGNITIVE GROWTH AND SCHOOL ACHIEVEMENT IN THE VISUALLY HANDICAPPED CHILD. VISUAL STIMULATION FOR REGISTERED BLIND AND PARTIALLY-SIGHTED CHILDREN. BRAILLE LEARNING AND READING. MEASUREMENT OF SHORT-TERM MEMORY IN DEAF/BLIND CHILDREN. EVALUATION OF TEACHING AIDS FOR THE VISUALLY HANDICAPPED.

180 TORBERGER A.
DEPARTMENT OF TELECOMMUNICATION NETWORKS AND SYSTEMS, THE ROYAL INSTITUTE OF TECHNOLOGY, 100 44 STOCKHOLM 70, SWEDEN.
DEVELOPMENT OF TELECOMMUNICATION EQUIPMENT FOR THE DEAF-BLIND.

181 TRAYKOVA I.
SCHOOL FOR BLIND CHILDREN, UL. JOMSKO SHOSSE 85, SOFIA, BULGARIA.
COMPARATIVE STUDY OF THINKING IN BLIND CHILDREN IN PRIMARY SCHOOLS.

182 TROWALD PROF. N.
DEPARTMENT OF EDUCATIONAL RESEARCH, LHU, OSTRA AGATAN 9, S-753 22 UPPSALA, SWEDEN.
EDUCATIONAL RESEARCH OF LEARNING PROBLEMS FOR THE VISUALLY HANDICAPPED.
PERSONAL FIELD OF RESEARCH: LEARNING STRATEGIES FOR BLIND LISTENERS.

183 URWIN C.
UNIT FOR RESEARCH INTO MEDICAL APPLICATIONS OF PSYCHOLOGY, 5 SALISBURY VILLAS, STATION ROAD, CAMBRIDGE, ENGLAND.
LONGDITUDIONAL RESEARCH INTO THE DEVELOPMENT OF PREVERBAL COMMUNICATION AND EMERGENCE OF LANGUAGE IN INFANTS BORN BLIND.

184 VOYSEY M.
SOCIAL RESEARCH UNIT, BEDFORD COLLEGE ANNEXE, UNIVERSITY OF LONDON, PETO PLACE, MARYLEBONE ROAD, LONDON NW1, ENGLAND.
SOCIAL PSYCHOLOGICAL IMPLICATIONS OF DOCTOR-PATIENT INTERACTION IN THE DEVELOPMENT OF DIABETIC RETINOPATHY.

185 WARBURG DR. M.
THE COPENHAGEN EYE CLINIC FOR THE MENTALLY RETARDED, SOGNEVEJ 40, DK 2820 GENTOFTE, COPENHAGEN, DENMARK.
A DANISH REGISTRATION OF NUMBER, DIAGNOSES & GEOGRAPHICAL DISTRIBUTION OF BLIND PERSONS WHO ARE ALSO MENTALLY RETARDED. IN COOPERATION WITH THE DANISH SCHOOL FOR THE BLIND: DEVELOPMENT OF A TRAINING PROGRAM FOR MULTI-HANDICAPPED BLIND CHILDREN. IN COOPERATION WITH THE DANISH JOHN F. KENNEDY INSTITUTE: INVESTIGATION OF THE FREQUENCY AND GENOTYPES OF RETINITIS PIGMENTOSA IN DENMARK. STUDY OF SELECTED PERSONS WITH METABOLIC EYE DISEASES. STUDY OF SPORADIC CASES OF NORRIE'S DISEASE.

186 WARD J.C.
CLARENDON LABORATORY, DEPARTMENT OF PHYSICS, UNIVERSITY OF OXFORD, PARKS ROAD, OXFORD OX1 3PU, ENGLAND.
WITH DR.A.J. CROFT: CLOSED CIRCUIT T.V. READING AID WITH IMAGE MAGNIFICATION, REVERSAL, ENHANCING AND MASKING.

187 WEBER G.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
A COMPARISON OF THE INTROVERSION OF PARTIALLY-SIGHTED STUDENTS IN NORMAL SCHOOLS AND THEIR NORMAL CLASSMATES.

188 WECKROTH J.
UNIVERSITY OF TAMPERE, TAMPEREEN YLIOPISTO, TAMPERE, FINLAND.
COMPARATIVE RESEARCH REGARDING CONGENITALLY BLIND PERSONS.

189 WEIMANN E.
605 OFFENBACH, AM VIEHWEG 78, WEST GERMANY.
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190 WEINLADER DOZ. H.
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DEPARTMENT OF PSYCHOLOGY, MANCHESTER UNIVERSITY, MANCHESTER M13 9PL, ENGLAND.
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DEPARTMENT OF COMMUNICATION, UNIVERSITY OF KEELE, STAFFORDSHIRE, ENGLAND.
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DEPARTMENT OF EDUCATION FOR BLIND AND PARTIALLY-SIGHTED CHILDREN, INSTITUTE OF DEFECTOLOGY, USSR ACADEMY OF PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
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PHYSIOLOGICAL LABORATORY, RESEARCH INSTITUTE OF LABOUR EXAMINATION AND ORGANISATION OF WORK OF THE HANDICAPPED, 4 SMOLNI, LENINGRAD, USSR.
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TYPHLOPEDAGOGICAL DEPARTMENT, PEDAGOGICAL INSTITUTE NAMED AFTER A.I.HERZEN 48 MOYKA EMBANKMENT, LENINGRAD, USSR.
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